

# LMCR Community Board 1 Update

October 2019



# Agenda

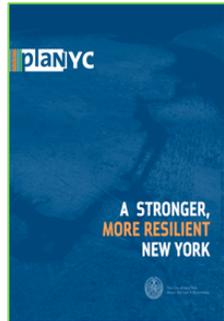
1. Introductions & Quick Recap
2. Project Updates
  - A. Interim Flood Protection Measures (IFPM)
    - Installation Status
    - Art Competition
  - B. Battery Park City Resiliency Plan
    - Design Progress
  - C. The Battery Coastal Resilience
    - Project Extents, Current Status, and Project Goals
    - Existing Conditions
    - Schematic Promenade Reconstruction
    - Project Milestones
  - D. FiDi-Seaport Climate Resilience Master Plan
    - Conceptual Timeline
    - Climate Coalition Approach
3. End of Year Lookahead & Next Steps

# Lower Manhattan Coastal Resiliency (LMCR) is a comprehensive strategy to adapt Lower Manhattan to the impacts of climate change.



Study Areas

# Since Hurricane Sandy, the City has been working to find a solution for climate resilience for Lower Manhattan.



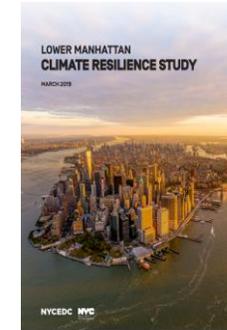
## A Stronger, More Resilient New York

Released with initial idea for outboard development in Lower Manhattan



## NY Rising Community Reconstruction Plan

Community calls for resilience investments in Lower Manhattan



## Lower Manhattan Climate Resilience Study

First comprehensive risk assessment and strategy for Lower Manhattan, with engineering analysis of multiple on-land alternatives

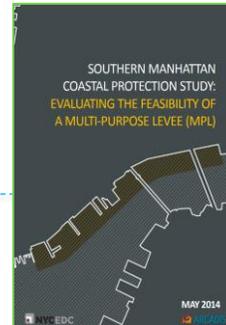
2012

2014

2019

## Rebuild By Design: The Big U

Incorporated variety of on-land concepts and secured funding through HUD Rebuild by Design competition



## Southern Manhattan Coastal Protection Study (Seaport City)

Released with further analysis of outboard development



Upon release of 2014 study, Lower Manhattan leaders and stakeholders called for a more comprehensive solution for the District and exploration of on-land alternatives

# Coordinated interagency team is implementing \$500M in on-land capital projects and advancing a Master Plan for FiDi-Seaport.

- 2019 Study has led to:
  - On-land capital projects for 70% of the district (including 45% of original Seaport City geography), advancing with \$500M of funding; and
  - Master Plan for Financial District and Seaport, where on-land solutions or technologies were not deemed viable.
- Additional and on-going community engagement needed to advance capital projects and Master Plan



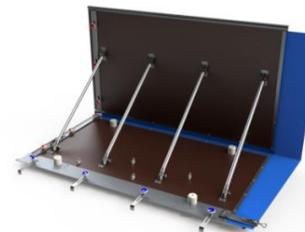
# IFPM Update

- South Street Seaport (SSSP)\*
  - Status: Operational as of June 2019
  - Beautification unveiled September 26, 2019
  - Analyzing potential re-design of existing alignment (Catherine Slip to Wall Street)
  - Studying potential expansion (Wall Street to Battery Park)\*\*
- Tribeca Analysis\*\*\*
  - Analyzing potential IFPM installation from North Esplanade to Leroy Street
- Two Bridges
  - Installation completed September 27, 2019

IFPM Alignment Tribeca, South Street Seaport and AquaFence Extension



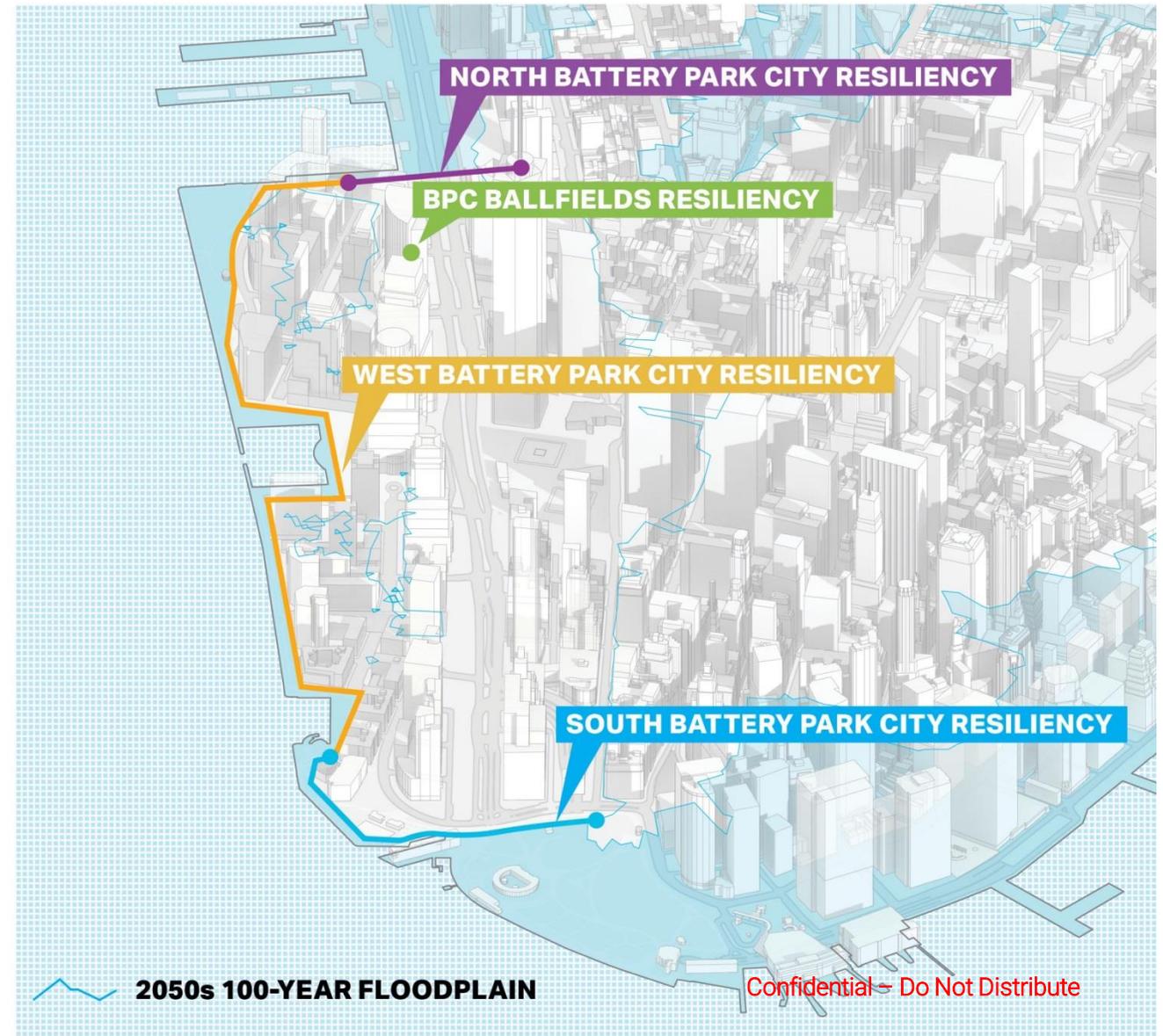
Beautification at South Street Seaport



Redesign evaluating new measure - AquaFence

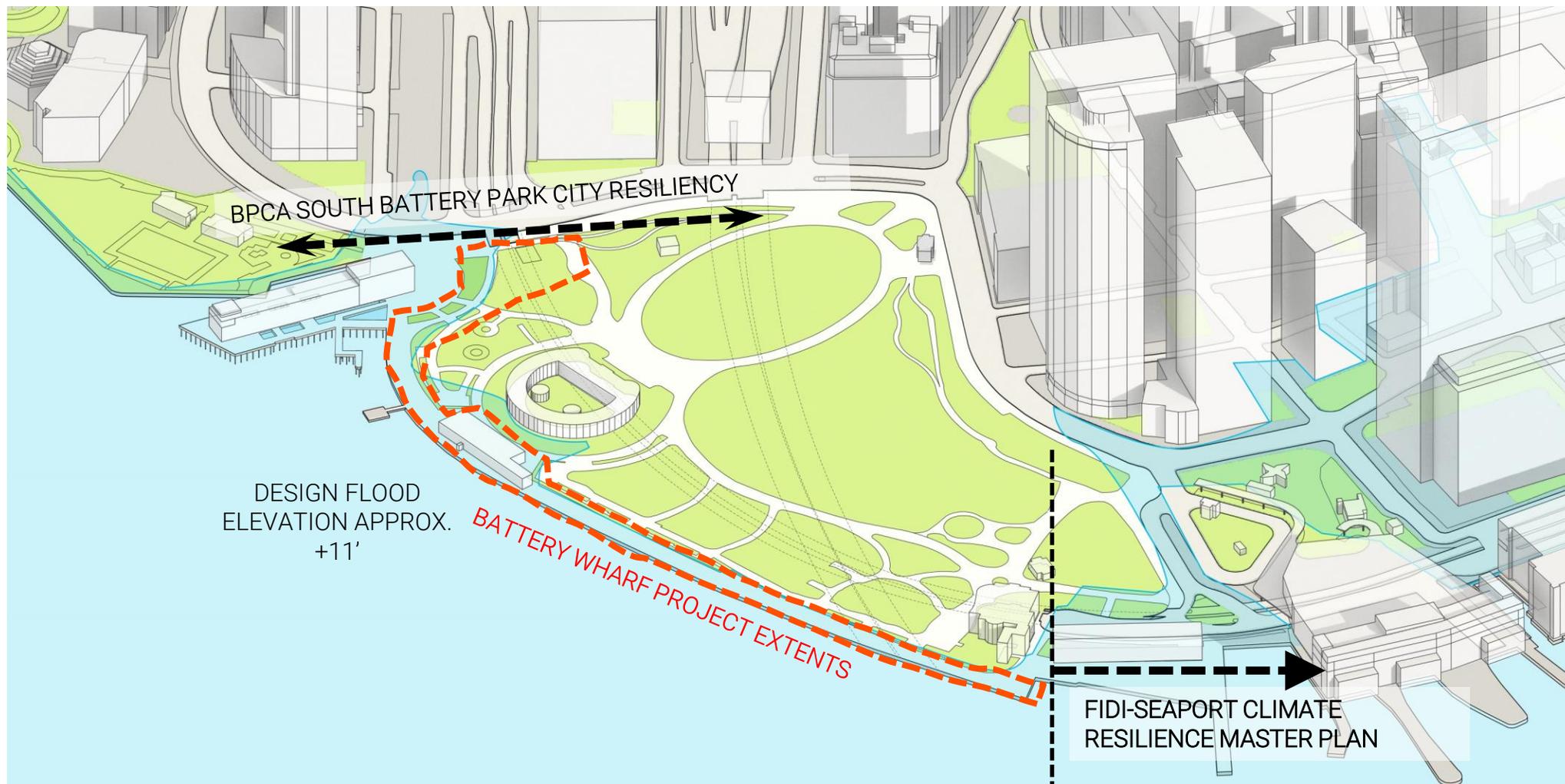
# Battery Park City Update

- Bond cap announcement
- South Battery Park City
  - PDC submission
  - Ongoing stakeholder engagement
  - Public meeting #4
- North Battery Park City
  - Design kick-off
  - Public Meeting #1
  - Stakeholder Meeting
- Ballfields Resiliency
  - Public Meeting #4
- West Battery Park City
  - RFP release (Fall)



# The Battery Coastal Resilience

## The Battery Coastal Resilience Project Extents



# The Battery Update

## GOALS

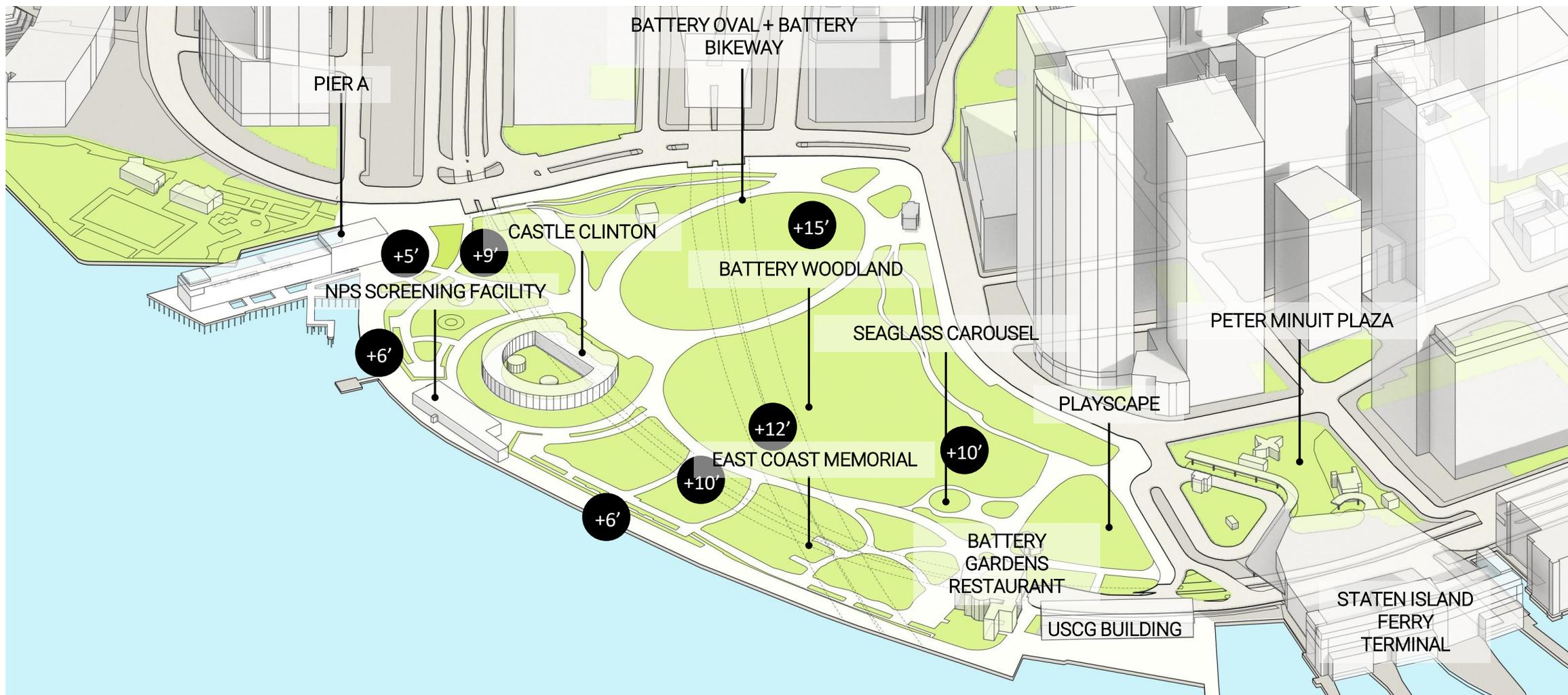
- Full reconstruction of wharf structure
- Elevate wharf to 2100 Sea Level Rise level (approx. elevation 11')
- Tie-in to BPCA South Battery Park City Resiliency project
- Close Coordination with Stakeholders and Public
- Maintain NPS Operations
- Retain existing materials & aesthetic
- Equal access and universal design
- Build a sustainable wharf

## CURRENT STATUS

- EDC managing on behalf of NYC Parks
- Ongoing stakeholder engagement:
  - Community Board 1
  - Elected Officials
  - The Battery Conservancy
  - Battery Park City Authority
  - National Parks Service
  - Various City Agencies
- Design Consultant selection: Stantec
- Overall design schedule – ON TRACK:
  - Kick-off Fall 2019
  - Completion anticipated Summer 2021

# The Battery Update

## Existing Site Features and Elevations



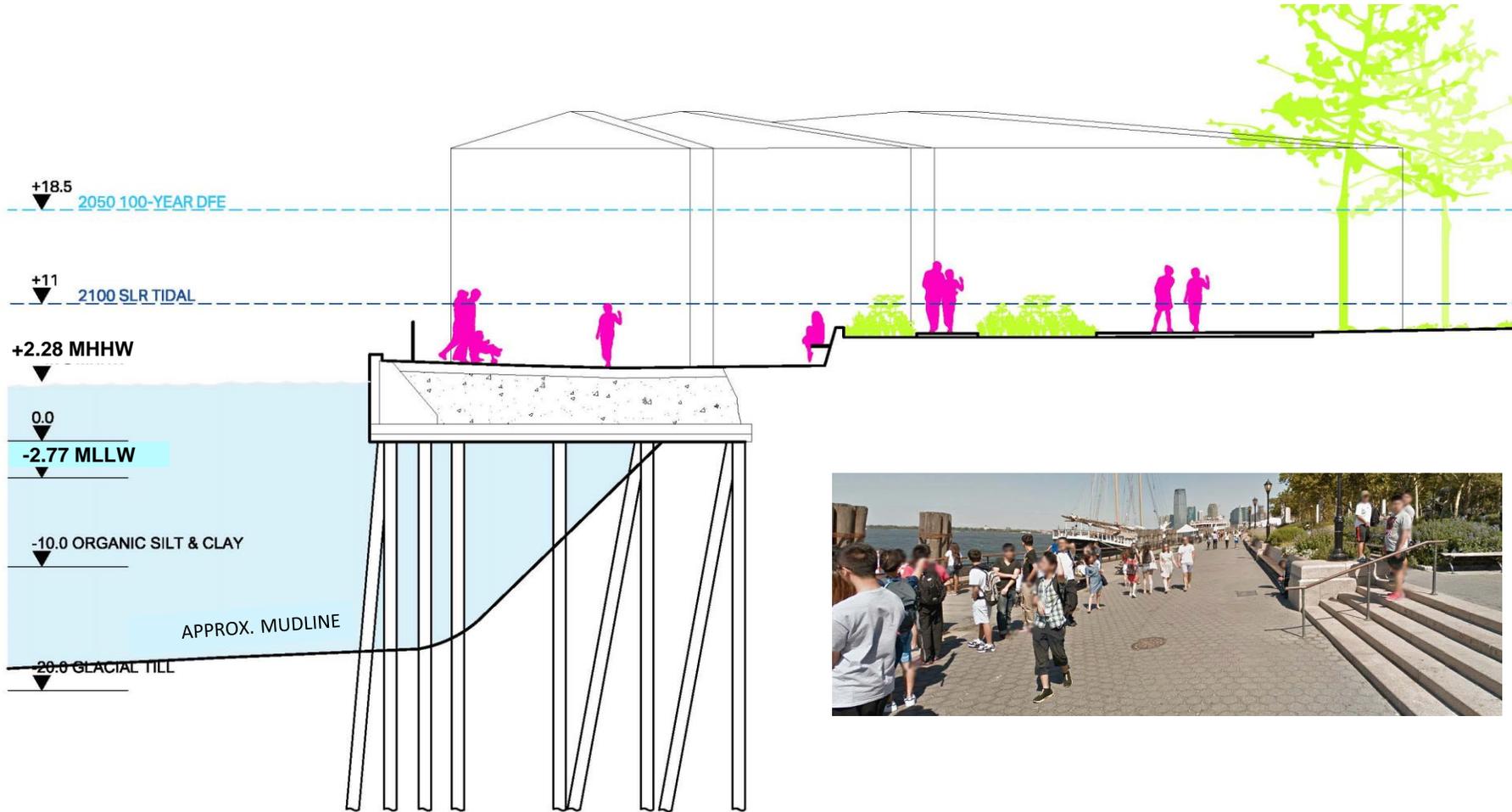
# The Battery Update

2100 Sea Level Rise / Present Day 10-Year Storm Design Flood Elevation (Including 1' Freeboard)



# The Battery Update

## Wharf Existing Conditions

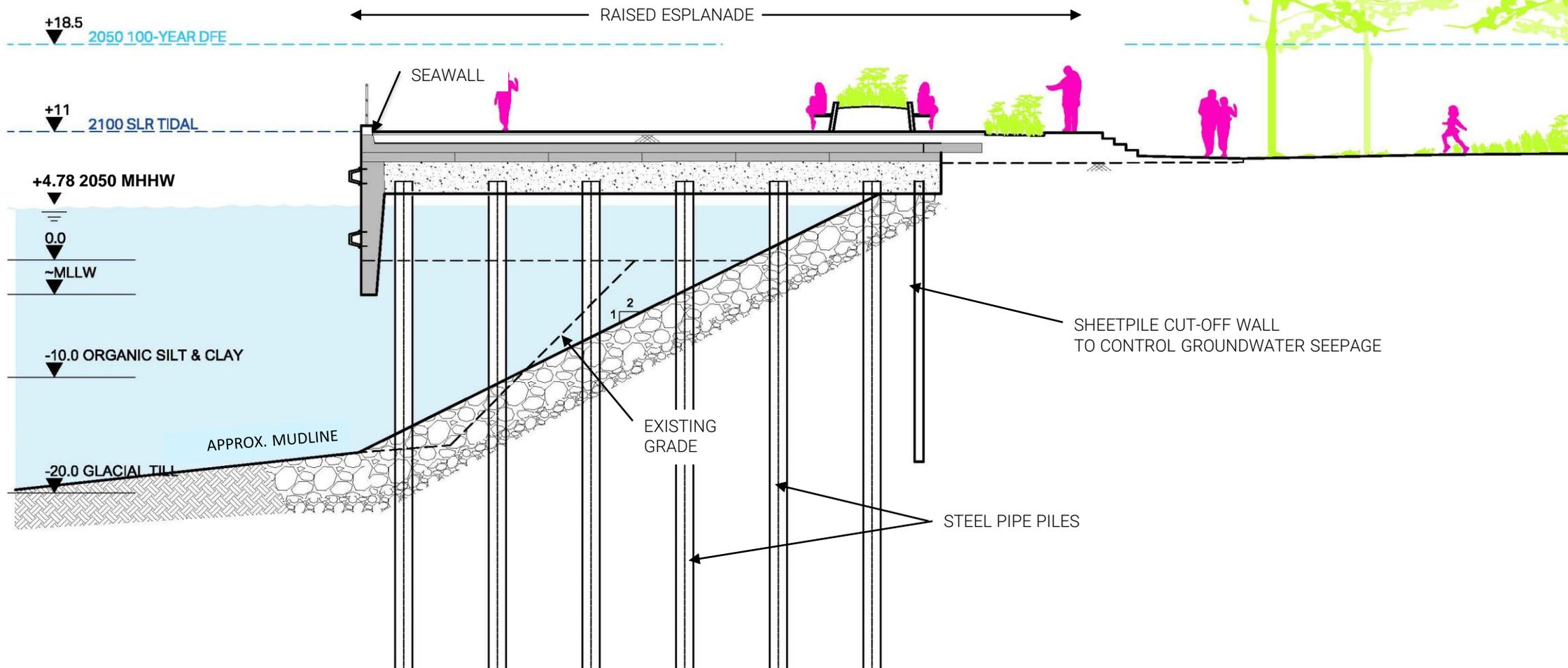


### Wharf Conditions

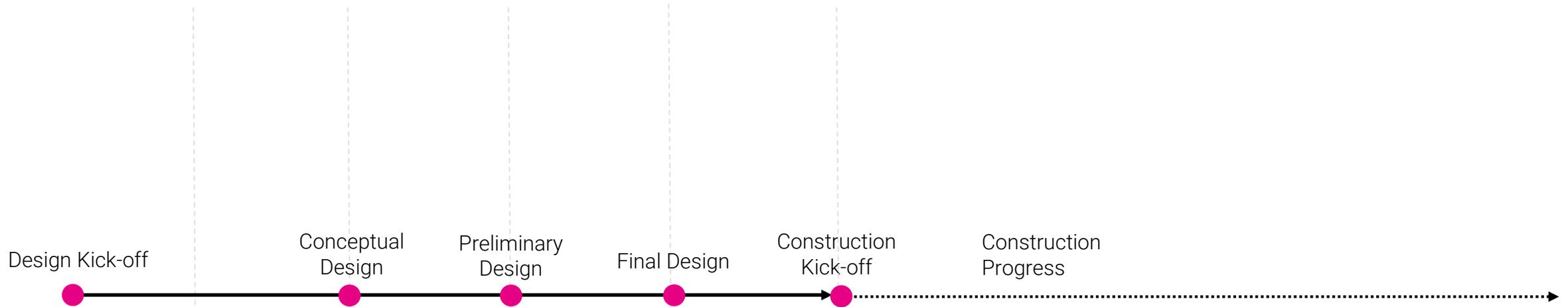
- Deteriorating condition of wharf structure
- Emergency repairs under way
- Periodic overtopping

# The Battery Update

## Schematic Wharf Reconstruction



# The Battery Project Milestones



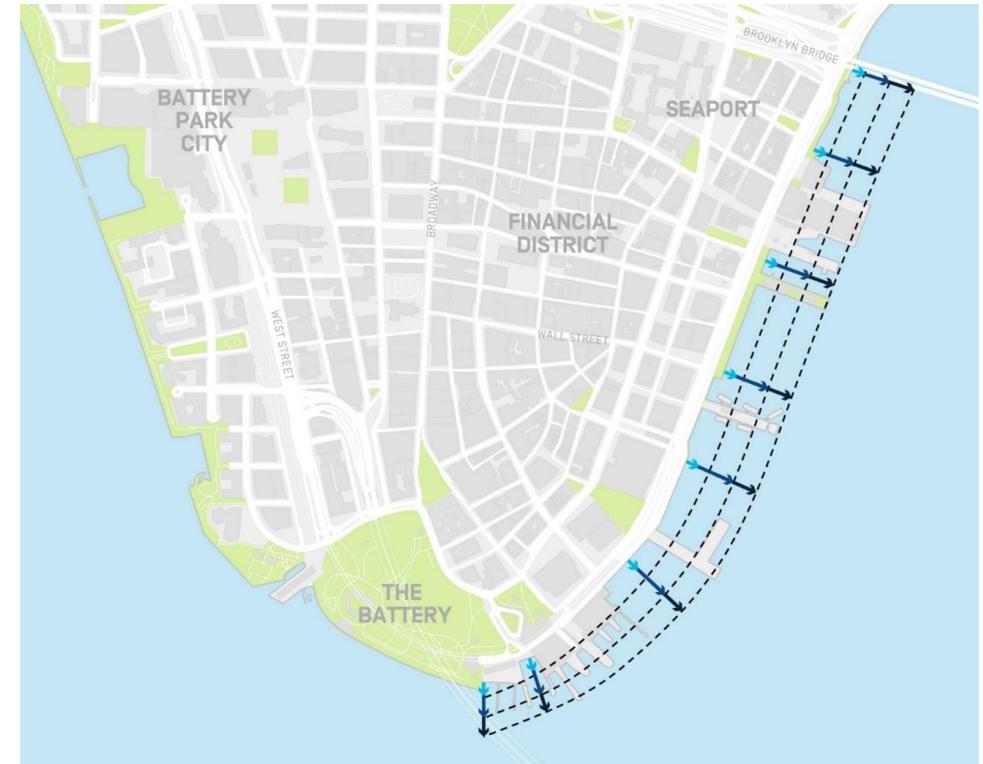
# Financial District-Seaport Climate Resilience Master Plan Update

The Financial District-Seaport Climate Resilience Master Plan will develop a shoreline extension solution to increase resilience of Lower Manhattan.

What can we achieve in two years?

- Determine extent of shoreline extension
- Develop a conceptual design of shoreline extension and preliminary design of a first phase project
- Create a detailed implementation plan for financing, construction, and governance
- Advance permits with State and Federal agencies
- Create a drainage plan to upgrade sewer system in response to severe climate risks

**Next Step:** Kick-off with consultant team and plan for first large-scale community meetings



*Location and extent of shoreline extension to be determined through community engagement and permitting*

# FiDi-Seaport Master Plan Update

## Consultant Selection

- **Team Lead:** Arcadis
- Climate resilience leader with over **100 years of global experience** in the adaptation and flood protection of cities
  - Land reclamation projects across the globe
  - Design & construction for land reclamation projects in Rotterdam and Amsterdam
  - Coastal resilience projects in Boston, San Francisco, and New Orleans
- Core team has **strong local presence** in Lower Manhattan and proven track record on NYC's key resilience initiatives
  - Continuity from LMCR, ESCR, Big U, Southern Manhattan Coastal Protection Study, and NY Rising
  - Other NYC experience includes Living Breakwaters in Staten Island, Coney Island Creek Resiliency, drainage study for DEP in Gowanus, and Climate Adaptation Roadmap for NYC
  - Strong relationships with Army Corps and other permitting agencies



*Living Breakwaters*



*Rotterdam Climate Proof*

# FiDi-Seaport Master Plan Update

## Master Plan Services

- Engineering and design of the shoreline extension, including upland components and tie-ins
- Transportation, maritime and drainage infrastructure analysis
- Strategies for placemaking, urban design and programming
- Drainage modeling under multiple storm scenarios
- Analysis of environmental impacts to inform design and permitting considerations
- Developing a pathway to implementation, including strategies for permitting, financing, and governance
- Public and stakeholder engagement
- Background analysis and site investigations
- Analysis of in-water impacts, including habitats and ecology, water rebound, navigational concerns, and scour

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Engineering



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Planning/Design



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Engagement



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Financing/  
Governance



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Permitting/  
Environmental



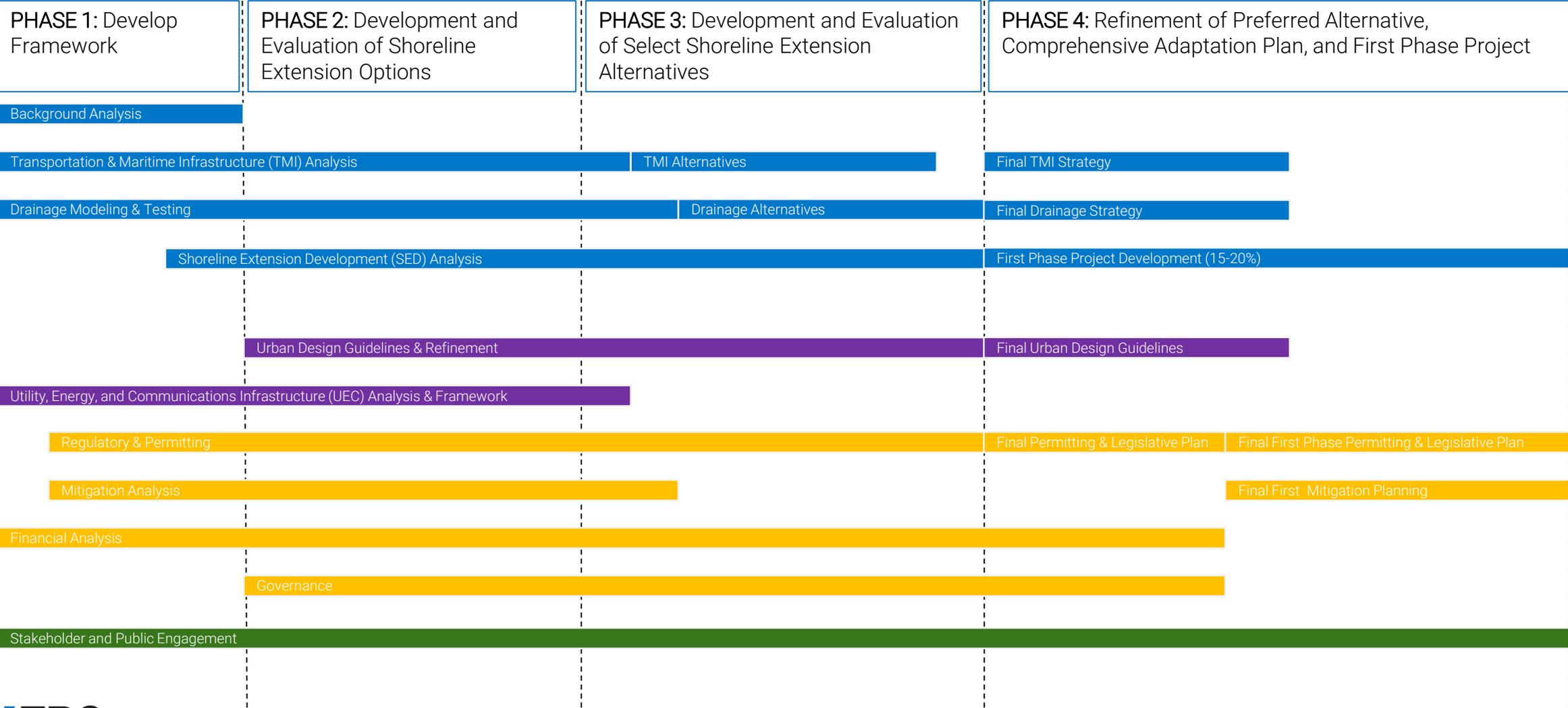
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Transportation



# FiDi-Seaport Master Plan Update

## Conceptual Timeline



# FiDi-Seaport Master Plan Update

## Engagement Proposal

### Climate Coalition

#### Goals:

- Provide robust education for LM community on climate change, resilience, and infrastructure
- Build foundation for generational coalition and advocacy for climate adaptation in FiDi-Seaport
- Develop shared City and community vision for the shoreline extension

#### Structure:

- Group of local stakeholders and climate resilience and environmental groups to start, with opportunities to grow over time

#### Frequency of Meetings:

- Every quarter

### Technical Advisors

#### Goals:

- Review and provide input on technical analysis
- Act as educational resource for community stakeholders

#### Structure:

- Body of third party experts on climate science, resilience, infrastructure and engineering

#### Frequency of Meetings:

- TBD based on consultant schedule

### Public Engagement

#### Goals:

- Foster broad understanding of climate issues and City's strategy
- Build public advocacy for City to take action to protect LM from climate change

#### Structure:

- Large-format public forums
- Creative public engagement tools, like public art and youth education
- Digital outreach

#### Frequency of Meetings:

- Every 6 months (for formal meetings)

# Public Engagement Milestones

Projects	Timeline			
	September	October	November	December
IFPM	Announce art competition winners (9/26)			
Battery Park City	South BPC Resiliency PDC submission Ballfields Resiliency Public Meeting #4 (9/26)	North BPC Resiliency Public Meeting #1 (10/1) South BPC Resiliency CB1 Update (10/3)	South BPC Resiliency Public Meeting #4	
The Battery		CB1 Update (10/3)		
FiDi-Seaport	Executive Committee (9/26) Climate Coalition Formation	CB1 Update (10/3)	Climate Coalition Kickoff (TBD)	Public Meeting #1 (TBD)
BK Bridge-Montgomery	CB3 Update	Public Meeting #1 (10/2) PDC conceptual review		
Overall LMCR Strategy	Quarterly electeds and CBs update (9/26) Office Hours (Pier 16/17, Go Fish! Festival) Additional briefings	LinkNYC ads Office Hours (Bowling Green, Pier 35, The Battery)	LinkNYC ads	LinkNYC ads